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UTILITY PATENT APPLICATION **TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

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Attorney Docket No.	042390.P14512
First Inventor	Ganesh Balmurugan
Title	Adaptive Equalization Using a Conditional Update Sign-Sign Least Mean Square
Express Mail Label No.	EV339923211US

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APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.			Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450							
2. Application Application See 37 Specific (preferm - Describle - Reference - Reference - Background - Brief Seriel - Brief Se	t an original ant claims of CFR 1.2 ication are arrange riptive title are Reference ment Regarence to se computer proground of the Summary of	[Total ement set forth belo of the invention are to Related Applica arding Fed sponsore equence listing, a ta program listing appe the Invention of the Invention n of the Drawings (i	or fee processing) tus. I Pages 21 w) ations ad R & D ble, ndix]	8. Nucle (if app a. [b.	Computer eotide and olicable, a Com Speci. ii. Stat	or CD-R in dupl Program (Appe Program (Appe II necessary) puter Readable cification Seque CD-ROM or C Paper	endix) Sequence Form (CR ence Listing D-R (2 cop	Sub (F) g on: pies);	omission ; or ove copies
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5b, is considered	d a part of	f the disclosure of	the accompanying cor	ntinuation	or divisiona	il application	on and is hereby	Incorporat	ed by	reference.
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77 7 0541 2. 1441051										
Signature	ł	Citta 2	- 16 a. Ka	m			1	Date	Sep	tember 10, 2003

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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September 10, 2003

Date

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FEE TO A NOMITTAL		Complet if Known						
FEE TRANSMITTAI	- [Application Number			r ***			
for FY 2003		Filing Date			***	***		
	[First Named Inventor Ganesh Balmurugan			Balmurugan			
Effective 01/01/2003. Patent fees are subject to annual revision.	[Examiner Name			***	***		
Applicant claims small entity status. See 37 CFR 1.27		Art Unit			***	***		
TOTAL AMOUNT OF PAYMENT (\$) 750.00	ł				042390	P14512		
METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)							
Check Credit card Money Other None	3. ADDITIONAL FEES							
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Name	1053	130	1053		cover sheet Non-English spe	cification		
The Director is authorized to: (check all that apply) Charge fee(s) indicated below Credit any overpayments		2,520				est for ex parte reexamination		
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FEE CALCULATION	1251 1252		2251 2252			ply within first month ply within second month		
1. BASIC FILING FEE	1252		2252			ply within third month		
Large Entity Small Entity Fee Fee Fee Fee Paid Fee Fee Paid		1,450	2254			ply within fourth month		
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1001 750 2001 375 Utility filing fee 750.00	1401		2401		Notice of Appea			
1002 330 2002 165 Design filing fee 1003 520 2003 260 Plant filing fee	1402		2402		• • •	support of an appeal		
1004 750 2004 375 Reissue filing fee	1403	280	2403	140 f	Request for ora	hearing		
1005 160 2005 80 Provisional filing fee	1451	1,510	1451	1,510 i	Petition to institu	ute a public use proceeding		
SUBTOTAL (1) (\$) 750.00	1452	110	2452	55 J	Petition to revive	e - unavoidable		
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1453	1,300	2453	650	Petition to reviv	e - unintentional		
Fee from		1,300	2501		Utility issue fee	'		
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Independent 3 3 3 4 5 0 x 84 5 0	1503 1460		2503 1460		Plant issue fee Petitions to the	Commissioner		
Claims Multiple Dependent	1807		1807			under 37 CFR 1.17(q)		
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1201 84 2201 42 Independent claims in excess of 3	1809	750	2809		(37 CFR 1.129)			
1203 280 2203 140 Multiple dependent claim, if not paid	1810	750	2810			onal invention to be		
1204 84 2204 42 ** Reissue independent claims over original patent		1 750	2801		•	nined (37 CFR 1.129(b)) puest for Continued Examination (RCE)		
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(Complete (Confidence)								
SUBMITTED BY Name (Print/Type) Seth Z. Kalson		Registra		40,6	370	Telephone 408-720-8300		
Manie (Frantispe) Setti Z. Naison		(Attorney)	Agent)	40,0	,, ,	. 5.5pm.5.15 - 400-120 0000		

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